Small Series vehicles development services
Applus IDIADA is an engineering partner to the automotive industry providing complete solutions for product development projects worldwide

Our assets:

- Team of 2,300 professionals, and growing
- First class state-of-the-art testing facilities
- International presence in 25 countries with 55 local offices
- Constant innovation in new services and technologies
Small Series manufacturer concerns

- Legal requirements for each market
- Timing constraints
- Budget constraints
- Prototype optimisation
- Suppliers management
- Whole project management
Small Series vehicles development services

Development process

What can IDIADA offer

- Market strategy definition according to legal requirements (current and future)
- Development plan definition including:
  - Testing activities schedule
  - Budget analysis
  - Timing constraints
  - Prototypes optimisation
- Strategic suppliers definition

- Petition of exemptions
- Homologation / certification as the final step in the development program: time and money saving
- Partial Homologations / certification performance during the development process
- In-house EuroNCAP, IIHS, USNCAP assessment

- Virtual development – CAD / CAE
- Design
- Prototypes definition
- Development testing
- Engineering
- Risks analysis
- Suppliers management
- Whole project management (testing execution, timing, budget, prototypes)
- EU, US and other markets homologation consultancy
Small Series vehicles development services

Main strengths and advantages for small series vehicle projects

- All in-house testing / simulation / homologation capabilities
- Dedicated team for small production vehicles development projects:
  - ECU management capabilities
  - Experience in high technology materials behaviour (ex: carbon fibre)
  - Deep knowledge of all major vehicle functionalities
  - Experts in product strategy definition according to legal requirements

USA self certification services

- IDIADA can manage the whole USA certification process (including requesting for exemptions)

Homologation services

- IDIADA is a European Whole Vehicle Type Approval agency
- Accredited homologation service for Japan and Australia and acknowledged reports in many other countries in South America and the Middle East
- Homologation offices located close to our clients in many countries (Spain, France, Korea, Taiwan, China, Japan, GSO and US)
Small Series vehicles development services

Our Services

- Homologations (EU, Japan, Korea, China…)
- Passive safety engineering & testing
- Emissions testing
- Vehicle dynamics
- Vehicle durability
- Conformity of production testing
- Development consultancy
- Aerodynamics simulation (CFD)
- US certification testing
- US certification documentation consultancy & audit

Project examples

- Complete passive safety engineering & testing responsibility
- Complete USA testing & certification (including request of exemptions & full bureaucracy)
- European Homologation
- Complete passive safety testing responsibility
- European Homologation
- Aerodynamics simulation (CFD)
- Development consultancy
- European Homologation

Our customers (super/sports cars)

- Lamborghini
- McLaren
- Aston Martin
- Alfa Romeo
- Mercedes-Benz
- Jaguar
- Lotus
- Ferrari
- Caterham
- Pagani
- Wiesmann
- Koenigsegg
- Tramontana
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